

1

## SEQUENCE LISTING

<110> RAMSINGH, ARLENE I.  
HALIM, SADIA S.

<120> COXSACKIEVIRUS B4 EXPRESSION VECTORS AND USES THEREOF

<130> 0189-2001

<140> 09/879,572  
<141> 2001-06-12

<160> 32

<170> PatentIn Ver. 2.1

<210> 1  
<211> 16  
<212> PRT  
<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Peptide of the  
ryanodine receptor (RyR)

<400> 1  
Arg Ala Glu Asn Glu Lys Asp Ala Thr Thr Glu Lys Asn Lys Lys Arg  
1 5 10 15

<210> 2  
<211> 14  
<212> PRT  
<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Chimeric  
ova/virus peptide

<400> 2  
Glu Met Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ala  
1 5 10

<210> 3  
<211> 17  
<212> PRT  
<213> Unknown Organism

<220>

<223> Description of Unknown Organism: OVA 323-339

<400> 3  
Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ile Asn Glu Ala Gly  
1 5 10 15

Arg

<210> 4  
<211> 6  
<212> PRT  
<213> Coxsackievirus

<400> 4  
Ile Ser Gln Ala Val His  
1 5

<210> 5  
<211> 10  
<212> PRT  
<213> Coxsackievirus

<400> 5  
Ile Ser Gln Ala Val His Ala Ala His Ala  
1 5 10

<210> 6  
<211> 14  
<212> PRT  
<213> Coxsackievirus

<400> 6  
Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ile Asn Glu  
1 5 10

<210> 7  
<211> 16  
<212> PRT  
<213> Coxsackievirus

<400> 7  
Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ile Asn Glu Ala Gly  
1 5 10 15

<210> 8  
<211> 6  
<212> PRT  
<213> Coxsackievirus

<400> 8  
Val His Ala Ala His Ala  
1 5

<210> 9  
<211> 9  
<212> PRT  
<213> Human immunodeficiency virus

<400> 9  
Ile Ala Gly Thr Thr Ser Thr Leu Gln  
1 5

<210> 10  
<211> 9  
<212> PRT  
<213> Human immunodeficiency virus

<400> 10  
Ser Ser Ile Leu Asp Ile Arg Gln Gly  
1 5

<210> 11  
<211> 10  
<212> PRT  
<213> Human immunodeficiency virus

<400> 11  
Asn Glu Glu Ala Ala Glu Trp Asp Arg Leu  
1 5 10

<210> 12  
<211> 9  
<212> PRT  
<213> Human immunodeficiency virus

<400> 12  
Ile Ala Gly Thr Thr Ser Thr Leu Gln  
1 5

<210> 13  
<211> 9  
<212> PRT  
<213> Human immunodeficiency virus

<400> 13  
Ser Ser Ile Leu Asp Ile Arg Gln Gly  
1 5

<210> 14  
<211> 10  
<212> PRT  
<213> Human immunodeficiency virus

<400> 14  
Asn Glu Glu Ala Ala Glu Trp Asp Arg Leu  
1 5 10

<210> 15  
<211> 42

<212> DNA  
<213> Coxsackievirus

<220>  
<221> CDS  
<222> (1)...(42)

<400> 15  
cag gag atg tcc acc gcc act aac tca gat gtt cca gtg cag  
Gln Glu Met Ser Thr Ala Thr Asn Ser Asp Val Pro Val Gln  
1 5 10

42

<210> 16  
<211> 14  
<212> PRT  
<213> Coxsackievirus

<400> 16  
Gln Glu Met Ser Thr Ala Thr Asn Ser Asp Val Pro Val Gln  
1 5 10

<210> 17  
<211> 42  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
DNA vector

<220>  
<221> CDS  
<222> (1)...(42)

<400> 17  
cag gcc ttg tcc acc gcc act aac tca gag gcg cca gtg cag  
Gln Ala Leu Ser Thr Ala Thr Asn Ser Glu Ala Pro Val Gln  
1 5 10

42

<210> 18  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
peptide

<400> 18  
Gln Ala Leu Ser Thr Ala Thr Asn Ser Glu Ala Pro Val Gln  
1 5 10

<210> 19  
<211> 54

5

<212> DNA  
<213> Coxsackievirus

<220>  
<221> CDS  
<222> (1)..(54)

&lt;400&gt; 19

cag gag atg ata tct caa gct gtc cat gca gca cat gca gag gcg cca 48  
Gln Glu Met Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ala Pro  
1 5 10 15

gag cag  
Val Gln

54

<210> 20  
<211> 18  
<212> PRT  
<213> Coxsackievirus

&lt;400&gt; 20

Gln Glu Met Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ala Pro  
1 5 10 15

Val Gln

<210> 21  
<211> 19  
<212> PRT  
<213> Coxsackievirus

&lt;400&gt; 21

Glu Met Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ala Pro Val  
1 5 10 15

Gln Thr His

<210> 22  
<211> 33  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic DNA  
vector

<220>  
<221> CDS  
<222> (1)..(33)

&lt;400&gt; 22

atg acg cgt gct cta ttc caa gga aca cag gtg  
Met Thr Arg Ala Leu Phe Gln Gly Thr Gln Val  
1 5 10

33

<210> 23  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic peptide  
  
 <400> 23  
 Met Thr Arg Ala Leu Phe Gln Gly Thr Gln Val  
     1                 5                 10

<210> 24  
 <211> 33  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic DNA vector  
  
 <220>  
 <221> CDS  
 <222> (1)..(33;

<400> 24  
 atg acg cgt gct cta ttc caa gga gca cag gtg  
 Met Thr Arg Ala Leu Phe Gln Gly Ala Gln Val  
     1                 5                 10

33

<210> 25  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic peptide  
  
 <400> 25  
 Met Thr Arg Ala Leu Phe Gln Gly Ala Gln Val  
     1                 5                 10

<210> 26  
 <211> 54  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Chimeric coxsackievirus containing HIV

<400> 26  
 caggagatga atgaggaagc tgcagaatgg gatagactag aggcccaagt gcag 54  
  
 <210> 27  
 <211> 51  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Chimeric  
 coxsackievirus containing HIV  
  
 <400> 27  
 caggagatga tagcaggaac tactagtacc cttcaggagg cgccagtgca g 51  
  
 <210> 28  
 <211> 51  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Chimeric  
 coxsackievirus containing HIV  
  
 <400> 28  
 caggagatga gcagcattct ggacataaga caaggagagg cgccagtgca g 51  
  
 <210> 29  
 <211> 239  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Chimeric  
 coxsackievirus containing HIV  
  
 <220>  
 <221> CDS  
 <222> (10)..(237)  
  
 <400> 29  
 tacgataaa atg acg cgt gga cat caa gca gcc atg caa atg tta aaa gag 51  
 Met Thr Arg Gly His Gln Ala Ala Met Gln Met Leu Lys Glu  
 1 5 10  
  
 acc atc aat gag gaa gct gca gaa tgg gat aga gtg cat cca gtg cat 99  
 Thr Ile Asn Glu Glu Ala Ala Glu Trp Asp Arg Val His Pro Val His  
 15 20 25 30  
  
 gca ggg cct att gca cca ggc cag atg aga gaa cca agg gga agt gac 147  
 Ala Gly Pro Ile Ala Pro Gly Gln Met Arg Glu Pro Arg Gly Ser Asp  
 35 40 45

ata gca gga act act agt acc ctt cag gaa caa ata gga tgg atg aca 195  
 Ile Ala Gly Thr Thr Ser Thr Leu Gln Glu Gln Ile Gly Trp Met Thr  
 50 55 60

aat aat cca acg cgt gct cta ttc caa gga gca cag gtg tca ac 239  
 Asn Asn Pro Thr Arg Ala Leu Phe Gln Gly Ala Gln Val Ser Thr  
 65 70 75

<210> 30  
 <211> 77  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Chimeric  
 coxsackievirus containing HIV

<400> 30  
 Met Thr Arg Gly His Gln Ala Ala Met Gln Met Leu Lys Glu Thr Ile  
 1 5 10 15

Asn Glu Glu Ala Ala Glu Trp Asp Arg Val His Pro Val His Ala Gly  
 20 25 30

Pro Ile Ala Pro Gly Gln Met Arg Glu Pro Arg Gly Ser Asp Ile Ala  
 35 40 45

Gly Thr Thr Ser Thr Leu Gln Glu Gln Ile Gly Trp Met Thr Asn Asn  
 50 55 60

Pro Thr Arg Ala Leu Phe Gln Gly Ala Gln Val Ser Thr  
 65 70 75

<210> 31  
 <211> 158  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Chimeric  
 coxsackievirus containing HIV

<220>  
 <221> CDS  
 <222> (10)..(156)

<400> 31  
 tacgataaa atg acg cgt gga cat caa gca gcc atg caa atg tta aaa gag 51  
 Met Thr Arg Gly His Gln Ala Ala Met Gln Met Leu Lys Glu  
 1 5 10

acc atc aat gag gaa gct gca gaa tgg gat aga gtg cat cca gtg cat 99  
 Thr Ile Asn Glu Glu Ala Ala Glu Trp Asp Arg Val His Pro Val His  
 15 20 25 30

9

gca ggg cct att gca cca ggc cag acg cgt gct cta ttc caa gga tca 147  
Ala Gly Pro Ile Ala Pro Gly Gln Thr Arg Ala Leu Phe Gln Gly Ser  
35 40 45

cag gtg tca ac 158  
Gln Val Ser Thr

<210> 32  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Chimeric  
coxsackievirus containing HIV

<400> 32  
Met Thr Arg Gly His Gln Ala Ala Met Gln Met Leu Lys Glu Thr Ile  
1 5 10 15

Asn Glu Glu Ala Ala Glu Trp Asp Arg Val His Pro Val His Ala Gly  
20 25 30

Pro Ile Ala Pro Gly Gln Thr Arg Ala Leu Phe Gln Gly Ser Gln Val  
35 40 45

Ser Thr  
50